

I CLAIM:

1. A method of storing an e-mail address within an Abbreviated Dialing Number (ADN) record of a Subscriber Identity Module (SIM) card, the ADN record including a plurality of fields having personal contact information relating to a contact stored in the ADN record, said method comprising the steps of:

allocating a first number of bytes of memory space to a first field in the ADN record;

storing an e-mail address of a contact in the first field in the ADN record; and  
setting a flag in a second field in the ADN record indicating a presence of an e-mail address in the first field in the ADN record.

2. The method of Claim 1, wherein the first number of bytes allocated to the first field in the ADN record is equal to or less than 241 bytes.

3. The method of Claim 1, wherein the first field in the ADN record comprises an Alpha Identifier field.

4. The method of Claim 1, wherein the second field in the ADN record comprises a Type of Number/Numbering Plan Identification (TON/NPI) field.

5. The method of Claim 4, wherein the flag indicating the presence of an e-mail address is the first field in the ADN record is set in an NPI portion of the TON/NPI field.

6. The method of Claim 4, wherein an NPI portion of the TON/NPI field includes four binary bits, and wherein the step of setting a flag in the second field in the ADN record indicating the presence of an e-mail address in the first field in the ADN record comprises the step of setting the NPI portion of the TON/NPI field equal to binary "1110".

7. The method of Claim 1, wherein the ADN record includes a third field for storing a dialing number associated with the contact, and wherein the method further comprises the step of coding the third field in the ADN record as unused.

8. The method of Claim 1, wherein the ADN record includes a third field for storing a dialing number associated with the contact, and wherein the method further comprises the step of storing an invalid phone number in the third field in the ADN record.

9. The method of Claim 1, wherein the method further comprises the step of allocating a first byte in the first field in the ADN record for identifying another ADN record containing a phone number for the contact.

10. The method of Claim 9, wherein the another ADN record further includes an alphanumeric tag associated with the contact.

11. The method of Claim 1, wherein the method further comprises the step of allocating a second byte in the first field in the ADN record for identifying an extension record

containing a remaining portion of the e-mail address if the first number of bytes of memory space allocated to the first field in the ADN record is insufficient to store the e-mail address.

12. The method of Claim 11, wherein the ADN record includes a fourth field for storing an extension record identifier, wherein the extension record identifier in the fourth field and the second byte in the first field each identify the extension record containing the remaining portion of the e-mail address if the first number of bytes of memory space allocated to the first field in the ADN record is insufficient to store the e-mail address.

13. The method of Claim 1, wherein the method further comprises the step of allocating a third byte in the first field in the ADN record for identifying a length of the e-mail address stored in the first field.

14. The method of Claim 13, wherein the method further comprises the step of additionally storing an alphanumeric tag associated with the contact in the first field in the ADN record.

15. A method of storing an e-mail address within an Abbreviated Dialing Number (ADN) record of a Subscriber Identity Module (SIM) card, the ADN record storing subscriber-specific contact information relating to subscriber contacts and including a Dialing Number field having a first number of bytes of memory space for typically storing a phone number associated with a subscriber contact and an Alpha Identifier field having a second number of bytes of memory space for typically storing a subscriber-defined alphanumeric tag associated with the subscriber contact, said method comprising the steps of:

storing an e-mail address in the Alpha Identifier field of the ADN record associated with a particular subscriber contact; and

setting a flag in the ADN record indicating a presence of an e-mail address in the Alpha Identifier field.

16. The method of Claim 15, wherein the ADN record further includes a Type of Number/Numbering Plan Identification (TON/NPI) field, and wherein the flag setting step comprises setting a flag in the TON/NPI field indicating a presence of an e-mail address in the Alpha Identifier field.

17. The method of Claim 16, wherein the flag set in the TON/NPI field indicating the presence of an e-mail address in the Alpha Identifier field is set in an NPI portion of the TON/NPI field.

18. The method of Claim 16, wherein an NPI portion of the TON/NPI field includes four binary bytes, and wherein the step of setting a flag in the TON/NPI field indicating

the presence of an e-mail address in the Alpha Identifier field comprises setting the NPI portion of the TON/NPI equal to binary "1110".

19. The method of Claim 15, wherein the second number of bytes of memory space in the Alpha Identifier field is equal to or less than 241 bytes.

20. The method of Claim 15, further comprising the step of coding the Dialing Number field as unused.

21. The method of Claim 15, further comprising the step of storing an invalid phone number in the Dialing Number field.

22. The method of Claim 15, further comprising the step of allocating a first byte in the Alpha Identifier field for identifying another ADN record including a phone number for the particular subscriber contact.

23. The method of Claim 22, wherein the another ADN network further includes a subscriber-defined alphanumeric tag associated with the particular subscriber contact.

24. The method of Claim 15, further comprising the step of allocating a second byte in the Alpha Identifier field for identifying an extension record containing a remaining portion of the e-mail address if the second number of bytes of memory space allocated to the Alpha Identifier field in the ADN record is insufficient to store the e-mail address.

25. The method of claim 24, wherein the ADN record includes an Extension Record field for storing an extension record identifier, wherein the extension record identifier in the Extension Record field and the allocated second byte in the Alpha Identifier field each identify the extension record containing the remaining portion of the e-mail address if the second number of bytes of memory space allocated to the Alpha Identifier field in the ADN record is insufficient to store the e-mail address.

26. The method of Claim 15, further comprising the step of allocating a third byte in the Alpha Identifier field in the ADN record for identifying a length of the e-mail address stored in the alpha identifier field.

27. The method of Claim 26, further comprising the step of additionally storing a subscriber-defined alphanumeric tag associated with the particular subscriber contact in the Alpha Identifier field in the ADN record.

ROUTED TO: OFFICE OF